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[Christopher League, Zhong Shao, Valery Trifonov](#)

 September 1999 **ICFP '99**: Proceedings of the fourth ACM SIGPLAN international conference on Functional programming

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We propose a conservative extension of the polymorphic lambda calculus ( $F^{\omega}$ ) as a language for compiling languages with name-based class and interface hierarchies. C standard  $F^{\omega}$ ; ...

Also published in:

September 1999 **SIGPLAN Notices** Volume 34 Issue 9**2** [An intermediate language for source and target independent code optimization](#)
[Dennis J. Frailey](#)

 August 1979 **SIGPLAN '79**: Proceedings of the 1979 SIGPLAN symposium on Compiler construction

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This paper describes an intermediate language to be generated by a syntax analyzer generator. An (essentially) optional code optimization phase may be used before code language is designed to exclude source and ...

Also published in:

August 1979 **SIGPLAN Notices** Volume 14 Issue 8**3** [FLIC—a functional language intermediate code](#)
[S. L. Payton Jones](#)

 August 1988 **SIGPLAN Notices**, Volume 23 Issue 8

**Publisher:** ACM
Full text available: [Pdf](#) (1.19 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)
**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 13, Downloads (Overall): 47

FLIC is a Functional Language Intermediate Code, intended to provide a common interface between diverse implementations of functional languages, including parallel ones. The definition of FLIC's syntax and semantics, ...

**4** [A comparison of PASCAL intermediate languages](#)
[Philip A. Nelson](#)

 August 1979 **SIGPLAN '79**: Proceedings of the 1979 SIGPLAN symposium on Compiler construction

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PASCAL P-code is an aid when transporting PASCAL to new machines and environments. Using P-code may modify the P-code. This modification process may require some creative effort, but this effort may be eliminated by looking at previous ...

Also published in:



August 1979 **SIGPLAN Notices** Volume 14 Issue 8**5** [An intermediate language for vector processors](#) [Abbas S. Youssefi, D. E. Stevenson](#)April 1990 **ACM-SE 28**: Proceedings of the 28th annual Southeast regional conference**Publisher:** ACM  [Request Permissions](#)Additional Information: [full citation](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): n/a, Downloads (12 Months): n/a, Downloads (Overall): 1**6** [Direct microprogrammed execution of the intermediate text from a high-level language](#) [Francois Robert Broca, Richard E. Merwin](#)

August 1974 Proceedings of the meeting on SIGPLAN/SIGMICRO interface

**Publisher:** ACMFull text available:  Pdf (654.98 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cite this paper](#)**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 6, Downloads (Overall): 86,


Microprogramming commonly executed operations can improve the computational speed of some systems. This paper describes how microprogramming may be used to execute direct code generated by a high-level language compiler ...

Also published in:

August 1974 **SIGPLAN Notices** Volume 9 Issue 8**7** [P-TAC: a parallel intermediate language](#) [Zena Ariola, Arvind](#)November 1989 **FPCA '89**: Proceedings of the fourth international conference on Functional languages and computer architecture**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.47 MB)Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 26, Downloads (Overall): 14**8** [Transforming the .NET intermediate language using path logic programming](#) [Stephen Drape, Oege de Moor, Ganesh Sittampalam](#)October 2002 **PPDP '02**: Proceedings of the 4th ACM SIGPLAN international conference on Principles and practice of declarative programming**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (251.91 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cite this paper](#)**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 16, Downloads (Overall): 24


Path logic programming is a modest extension of Prolog for the specification of program transformations. We give an informal introduction to this extension, and we show how it can be used in compiler optimisations, and also a number of ...

**Keywords:** compiler optimisations, logic programming, meta programming, obfuscation, program transformation

**9** [Typing a multi-language intermediate code](#) [Andrew D. Gordon, Don Syme](#)January 2001 **POPL '01**: Proceedings of the 28th ACM SIGPLAN-SIGACT symposium on programming languages**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (257.05 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cite this paper](#)**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 75, Downloads (Overall): 614



The Microsoft .NET Framework is a new computing architecture designed to support applications and web-based services. .NET software components are typically distributed using an intermediate language, Microsoft IL, ...

Also published in:

March 2001 **SIGPLAN Notices** Volume 36 Issue 3**10** [Implementing typed intermediate languages](#) [Zhong Shao, Christopher League, Stefan Monnier](#)January 1999 **ICFP '98**: Proceedings of the third ACM SIGPLAN international conference on programming**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.50 MB)Additional Information: [full citation](#), [abstract](#), [references](#), [cite this paper](#)**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 26, Downloads (Overall): 271



Recent advances in compiler technology have demonstrated the benefits of using strict languages to compile richly typed source languages (e.g., ML). A type-preserving compiler guide advanced optimizations and to ...

Also published in:

January 1999 **SIGPLAN Notices** Volume 34 Issue 1**11** [An aspect-oriented infrastructure for a typed, stack-based, intermediate assembly](#) [Douglas R. Dechow](#)November 2002 **OOPSLA '02**: Companion of the 17th annual ACM SIGPLAN conference on programming, systems, languages, and applications**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (162.00 KB)Additional Information: [full citation](#), [abstract](#), [references](#)**Bibliometrics:** Downloads (6 Weeks): 2, Downloads (12 Months): 18, Downloads (Overall): 201

While traditional, one-dimensional approaches to the problem of separation of concerns for current software development, they are often brittle and resistant to evolutionary change. Aspect-orientation offer a controllable, ...

**Keywords:** aspect weaver, aspect-oriented programming, aspects, common intermediate language, compile-time, components, ecological modeling, preprocessors, runtime, separation of concerns

**12** [A single intermediate language that supports multiple implementations of exceptions](#) [Norman Ramsey, Simon Peyton Jones](#)August 2000 **PLDI '00**: Proceedings of the ACM SIGPLAN 2000 conference on Programming Language Design and Implementation**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (900.75 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cite this paper](#)**Bibliometrics:** Downloads (6 Weeks): 11, Downloads (12 Months): 44, Downloads (Overall): 514


We present mechanisms that enable our compiler-target language, C--, to express features that are not expressible in C. We present mechanisms that enable our compiler-target language, C--, to express features that are not expressible in C.

techniques for implementing exceptions, all within a single, uniform framework. We c  
precisely, using a formal operational semantics. ...

Also published in:


May 2000 **SIGPLAN Notices** Volume 35 Issue 5

### 13 [An intermediate systems language for the PDP-11](#)

 [Peter Karasz](#)

July 1977 **SIGPLAN Notices**, Volume 12 Issue 7

**Publisher:** ACM


Full text available:  [Pdf](#) (1.23 MB)

Additional Information: [full citation](#), [abstract](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 7, Downloads (Overall): 53,

In this paper we describe Version 2 of Intermediate Systems Language (ISL/V2), a g  
implementation language developed at the B. F. Goodrich Company. The particular in  
discuss here is for the PDP-11 family of minicomputers ...

### 14 [Direct microprogrammed execution of the intermediate text from a high-level lang](#)

 [Francois Robert Broca, Richard E. Merwin](#)

August 1973 **ACM'73**: Proceedings of the annual conference

**Publisher:** ACM 


Full text available:  [Pdf](#) (521.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 5, Downloads (Overall): 68,

Microprogramming commonly executed operations can improve the computational sp  
systems. This paper describes how microprogramming may be used to execute direct  
generated by a high-level language compiler ...

### 15 [The direct execution of intermediate languages on an Eclipse computer](#)

 [R. E. M. Cooper](#)

March 1980 **SIGMICO Newsletter**, Volume 11 Issue 1

**Publisher:** ACM


Full text available:  [Pdf](#) (332.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 10, Downloads (Overall): 39

The use of intermediate languages as a convenient means of developing portable hig  
compilers, appears to be growing. With this approach, the compiler for language A (v  
language A) compiles the source code into an ...

### 16 [Intermediate language for minicomputer cross-compilation](#)

 [Joseph K. Speetjens](#)

April 1976 **ACM-SE 14**: Proceedings of the 14th annual Southeast regional conference

**Publisher:** ACM 


Full text available:  [Pdf](#) (266.11 KB)

Additional Information: [full citation](#), [abstract](#), [references](#)

**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 9, Downloads (Overall): 87,

With the increasing use of minicomputers, the concept of cross-compilation (source p  
one machine which in turn outputs object code for another machine) has become pop  
examines the use of an intermediate language, a ...

### 17 [An intermediate design language and its analysis](#)

 [Daniel Jackson](#)


November 1998 **SIGSOFT '98/ FSE-6**: Proceedings of the 6th ACM SIGSOFT internation  
Foundations of software engineering

**Publisher:** ACM 


Full text available:  Pdf (901.37 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 17, Downloads (Overall): 86

A simple relational language is presented that has two desirable properties. First, it is to encode, fairly naturally, a variety of software design problems. Second, it is amenable to analysis. This paper explains ...


Also published in:

November 1998 **SIGSOFT Software Engineering Notes** Volume 23 Issue 6**18** [Refined types: highly differentiated type systems and their use in the design of in](#) [J. R. Rose](#)

July 1988

**PLDI '88:** Proceedings of the ACM SIGPLAN 1988 conference on Programming Language Design and Implementation**Publisher:** ACM  [Request Permissions](#)Full text available:  Pdf (1.23 MB)Additional Information: [full citation](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 17, Downloads (Overall): 15

Also published in:

July 1988 **SIGPLAN Notices** Volume 23 Issue 7**19** [The Mahler experience: using an intermediate language as the machine description](#) [David W. Wall](#), [Michael L. Powell](#)

November 1987

**ASPLOS-II:** Proceedings of the second international conference on Architecture for Programming Languages and Operating Systems**Publisher:** ACMFull text available:  Pdf (618.75 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [cit](#)**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 22, Downloads (Overall): 24

Division of a compiler into a front end and a back end that communicate via an intermediate language is a well-known technique. We go farther and use the intermediate language as the official interface between the front end and the back end of machines with simple instruction sets ...

Also published in:

October 1987 **SIGPLAN Notices** Volume 22 Issue 10October 1987 **SIGOPS Operating Systems Review** Volume 21 Issue 4November 1987 **SIGARCH Computer Architecture News** Volume 15 Issue 5**20** [A functional intermediate form for diverse source languages](#)[David V. Mason](#)November 1996 **CASCON '96:** Proceedings of the 1996 conference of the Centre for Advanced Computing and Collaborative research**Publisher:** IBM PressFull text available:  Pdf (215.24 KB)Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)**Bibliometrics:** Downloads (6 Weeks): 5, Downloads (12 Months): 10, Downloads (Overall): 19

This paper describes the use of WatlF, a simple compiler intermediate form based on writing compiler front-ends for a wide range of programming languages. Somewhat similar forms have been previously used for single-language ...

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